

SECTION 09 25 26

MARBLE BASED INTERIOR PLASTER

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes: The work specified in this Section includes a premixed ready-to-use vapor permeable marble-based plaster with a semi-rigid reinforcement mesh embedded into the first plaster layer and finished as directed. Specification includes limited surface preparation.

B. Related Sections: Related sections include the following:

PLACE RELATED SECTIONS BELOW. EXAMPLES INCLUDE:

1. Section 03 30 00 – Cast-In-Place Concrete
2. Section 03 40 00 – Precast Concrete
3. Section 04 20 00 – Unit Masonry
4. Section 09 50 00 – Ceilings
5. Section 09 20 00 – Plaster and Gypsum Board
6. Section 09 25 00 – Other Plastering
7. Section 09 26 00 – Veneer Plastering
8. Section 09 28 13 – Cementitious Backing Boards
9. Section 09 28 16 – Glass-Mat Faced Gypsum Backing Boards
10. Section 09 28 19 – Fibered Gypsum Backing Boards
11. Section 09 29 00 – Gypsum Board
12. Section 09 29 82 – Gypsum Board Fireproofing
13. Section 04 22 00 – Concrete Unit Masonry

C. Related Products *[DELETE ARTICLE C. IN FINAL SPECIFICATION]*

1. Stuccos/Plasters/Renders
 - a. KEIM Universalputz Fine Render
 - b. KEIM Universalputz Standard Render
 - c. KEIM NHL Kalkputz Fine
 - d. KEIM NHL Kalkputz Grob

1.2 REFERENCES

A. None

1.3 DEFINITIONS

- A. Plaster: An interior premixed, ready-to-use plaster.
- B. Mesh: A mineral glass mat for reinforcing the plaster.

1.4 SYSTEM DESCRIPTION

A. A materials-compatible vapor permeable plaster system.

1. Plaster System: A plaster applied in layers from 0.1 mm (1/250 inch) to 4.0 mm thick (3/16 inch).
2. Use to reinforce against static cracks in substrate from appearing in plaster, embed mesh into a minimum 2 mm (3/32 inch) base layer of plaster. After drying, apply a top layer of plaster over the embedded mesh base layer. Total plaster system thickness may be minimum 1.5 mm (1/16 inch).
3. Semi-rigid glass fiber structure promotes flat, ripple-free finished surfaces.

1.5 SUBMITTALS

- A. Product Data: Submit product data showing material proposed. Submit sufficient information to determine compliance with the Drawings and Specifications. Provide published documentation describing materials, characteristics, and limitations.
- B. Samples: Submit samples for verification purposes, fabrication techniques and workmanship.
- C. Manufacturer's Instructions: Submit manufacturer's instructions including technical data sheets, material safety data sheets, mixing instructions, application requirements, special procedures, and conditions requiring special attention.
- D. LEED Submittals: Submittals that are required to comply with requirements for LEED certification include the following:
 1. Low Emitting Materials: Submit certification by the manufacturer confirming that products (i.e., adhesives, sealants, paints, coatings, etc.) meet or exceed the volatile organic compound (VOC) limits set by specific agencies or other requirements. Clearly state VOC limits in the submittal.

1.6 QUALITY ASSURANCE

- A. Qualifications:
 1. Manufacturer Qualifications: Provide evidence that Manufacturer is a firm engaged in the manufacture of plasters of types required, and whose products have been in satisfactory use in similar service for a minimum of five years.
 2. Applicator Qualifications: *(BELOW, KEEP ONE AND DELETE THE OTHER)*
 - a. Provide evidence Applicator is a firm having a minimum of three years of successful application experience with projects similar in type and scope to that required for this Project, and having passed a product certification training course provided by the manufacturer prior to the execution of this unit of work.
 - b. Provide evidence Applicator is a firm having successful application of products within this specification with at least one project in the last 18 months similar in type and scope to that required for this Project, and having passed a product certification training course provided by the manufacturer prior to the execution of this unit of work.
- B. Mock ups:
 1. Prior to application of the work, fabricate and erect mock ups for each type of finish and application to verify selections made under sample submittals and to demonstrate aesthetic effects as well as qualities of materials and execution.
 2. Build mock ups to comply with the following requirements using materials indicated for final unit of work.
 3. Locate mock ups as directed by the Architect.
 4. Demonstrate the proposed range of aesthetic effects and workmanship to be expected in the completed work.

5. Obtain the Architect's acceptance of mock ups before start of final unit of work.
6. Retain and maintain mock ups during construction in undisturbed condition as a standard for judging completed unit of work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the Project site in supplier's or manufacturer's original wrappings and containers, labeled with manufacturer's name, material and product brand name, and lot number, if any.
- B. Store materials in their original undamaged packages and containers inside a well ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1.8 PROJECT CONDITIONS

- A. Environmental Requirements:
 1. Indoor air temperature between 41 °F (5 °C) and 86 °F (30 °C).
 2. Calm air conditions, no strong drafts that prematurely dry out plaster surface.

1.9 WARRANTY

- A. Provide manufacturer's written product warranty.
 1. Warranty period from date of Substantial Completion is 1 year.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design:
 1. Items specified are to establish a standard of quality for design, function, materials, compatibility, performance, warranty, and appearance.
 2. The Architect is the sole judge of the basis of what is equivalent.
- B. Listed Manufacturers
 1. KEIM Mineral Coatings of America, Inc., 10615 Texland Blvd. #600, Charlotte, North Carolina 28273. Telephone 704-588-4811. Email keim-info@keim.com.

2.2 MATERIALS

- A. Plaster: Provide premixed ready-to-use marble-based plaster meeting or conforming to:
 1. Dolomite marble dust mineral filler with 0 to 0.1 mm (0 to 1/250 inch) grains.
 2. Can be applied in layers from 0.1 mm (1/250 inch) to 4.0 mm thick (3/16 inch).
 3. sd-value (vapor diffusion thickness) is 0.02 meters at 1 mm layer thickness, similar to silicate mineral paint coatings.
 4. Organic content less than 3 percent.
 5. Less than 30 g/l VOC.
 6. 9 pH, slightly alkaline.
 7. Basis of Design: "KEIM Dolomit Spachtel", KEIM Mineral Coatings of America, Inc.
- B. Mesh: Provide glass reinforcement mesh meeting or conforming to:
 1. Stranded mineral glass mesh designed specifically for embedding into extremely fine grained plaster.

2. Approximately 400 microns thick.
3. 1 meter (39.37 inches) wide semi-rigid construction that maintains its shape against lateral stress.
4. Tensile strength approximately 1 pound per square inch.
5. Alkali-resistant, unaffected by high pH plasters. Will not deteriorate over time.
6. Fire proof. Fire classification DIN 4102-B2.
7. No VOC.
8. Basis of Design: "KEIM Glass Fiber MicroMesh", KEIM Mineral Coatings of America, Inc.

2.3 EQUIPMENT

A. Tools:

1. Plaster: Application by ordinary plastering tools.
2. Mesh: Application by ordinary plastering trowels and a sharp utility knife.

2.4 FINISHES

A. Plaster: Finish as directed by Architect.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Confirm by examination the areas and conditions under which the work is to be applied for compliance with manufacturer's instructions. Do not proceed with the work until unsatisfactory conditions have been corrected.
1. Verify substrate is secure, sound, dry, and absorbent, and free of dirt, grease, salts, oil-based paints, release agents, curing agents, and other bond breakers.
 2. Verify substrate has no other pretreatments or priming materials applied.
 3. Beginning of the work shall indicate acceptance of the areas and conditions as satisfactory by the Applicator.

3.2 PREPARATION

- A. Protection: Lay ground cloths and take measures as necessary to protect surfaces subject to contact by products specified by this Section.

3.3 APPLICATION

- A. Conform to reviewed product data, manufacturer's written instructions, and provisions of the Contract Documents.
- B. Plan the work properly.
1. Substrates such as concrete must not be greater than three percent relative humidity (3% rH) as measured by a masonry moisture meter prior to plaster application.
- C. Base layer of Plaster:
1. Ensure substrate is free of dust and other bond breakers.
 2. Measure and precut mesh into strips overlapping edges 2 inches.
 3. Apply a minimum 2 mm (3/32 inch) layer of plaster to the substrate.
 4. Position and lightly contact mesh onto wet plaster surface overlapping edges 2 inches.

5. Cut through center of overlapped edges with sharp utility knife.
 6. Remove overlapping strips and press edges flat with trowel.
 7. Finish embedding mesh by trowel. Do not allow mesh to contact substrate.
 8. Allow plaster to completely dry.
- D. Top layer of Plaster:
1. Ensure base layer plaster surface is dry and free of dust and other bond breakers.
 2. Do not pre-wet base plaster surface.
 3. Apply top layer of plaster in layer thick enough to finish according to Section 2.4 FINISHES.
 4. Cure minimum 2 days before application of finishes.

3.4 CLEANING

- A. Clean tools, spills, and accidental drips immediately with plenty of water.
- B. Leave applications clean and premises free from residue and debris from work of this Section.

END OF SECTION